

In the Specification:

Please delete the title of the invention and replace it with the following title of invention:

Photomultiplier Power Supply with Primary and Secondary Transformer Windings

[0020] The power supply of the present invention comprises a series of basic cells to which the photomultiplier tube terminals connect. Turning now to Figure 8, the preferred embodiment of the present invention comprises a plurality of secondary transformer windings **800** coupled to primary transformer winding 1022. These secondary windings **800** can have all the same number of turns/windings or the number of turns/windings may differ from each other as desired by the photomultiplier tube application and design.

[0021] In a preferred embodiment, two diodes **810, 812** and two capacitors **814, 816** are connected to each transformer winding as shown in Figure 8. The positive terminal **1016** of a given cell connects to the negative terminal **1018** of the following cell. The negative terminal **1014** of the first cell is connected to the photo cathode, the first dynode to the center tap **818 (CT)**, and the second dynode to the positive terminal. The connection sequence is then repeated until the resistor **1015** connected in series with the anode terminal **1002** is reached. Any unused terminal in the last cell is left unconnected. To change the voltage ratio between tube elements, any dynode connection can be moved from the terminal CT **818** to the positive terminal, the winding voltage changed, or a combination of both implemented.

[0022] Turning now to **Figure 9**, a preferred embodiment of the present invention is shown in which all windings are identical, thus all tube terminals have the same voltage gradient. Turning now to **Figure 10**, if all windings are equal, the first dynode has twice the voltage gradient. If the winding ratio is 1.5:1, then the gradient will be 3:1 instead. Anode 1016, 1020 and cathode 1014, 1018 of the first and second diode, the positive 820 and negative 822 terminals of the power supply cell, the photo cathode 1004, first 1010 and second 1012 dynodes and resistor 1015 are shown in Figure 8 and Figure 9.